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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

03/25/2010

EXAMINER

CHAN, KAWING

ART UNIT PAPER NUMBER

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314

2837 DATE MAILED: 03/25/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,182	05/04/2006	Toshie Takeuchi	290407US3PCT	4578

TITLE OF INVENTION: METHOD FOR INSPECTING OPERATION OF ACTUATOR AND ACTUATOR OPERATION INSPECTOR

l	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/25/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

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						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	AT	TORNEY DOCKET NO.	CONFIRMATION NO.
10/578,182 FITLE OF INVENTION	05/04/2006 : METHOD FOR INSPE	ECTING OPERATION O	Toshie Takeuchi F ACTUATOR AND ACT	UATOR OPERATIO	290407US3PCT N INSPECTOR	4578
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/25/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
CHAN, K	AWING	2837	187-393000			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME AD PLEASE NOTE: Unla recordation as set forth (A) NAME OF ASSIG	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE	"Indication form led. Use of a Customer A TO BE PRINTED ON T ified below, no assignee oletion of this form is NO	(B) RESIDENCE: (CITY	ely, ely, elirm (having as a megent) and the names of news or agents. If no rorinted. e) tent. If an assignee issignment. and STATE OR COU	mber a 2	locument has been filed for
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_ ~ .	t <b>us</b> (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no long	er claiming SMALL I	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	e applicant; a register	ed attorney or agent; or the	he assignee or other party in
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Typed or printed name						
This collection of informan application. Confident submitting the completed this form and/or suggestion via 1450. Alexandria V	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bu- irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	on is required to obtain or re 1.14. This collection is esti depending upon the indivite the Chief Information Office.	etain a benefit by the p mated to take 12 min dual case. Any comm r, U.S. Patent and Tra o THIS ADDRESS SI	ublic which is to file (an ites to complete, including itents on the amount of tidemark Office, U.S. Dep	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450

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10/578,182	05/04/2006	Toshie Takeuchi	290407US3PCT	4578	
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OBLON, SPIVA	K, MCCLELLAND	CHAN, KAWING			
	1940 DUKE STREET		ART UNIT	PAPER NUMBER	
ALEXANDRIA, V	'A 22314		2837		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 648 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 648 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/578,182	TAKEUCHI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Kawing Chan	2837	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>THIS</b>	
<del>_</del>			
2. ☑ The allowed claim(s) is/are <u>1-14</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	e been received. e been received in Applicat	ion No	
3. ☑ Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached EX	(AMINER'S AMENDMENT or NOTICE OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	et he submitted		
(a) ☐ including changes required by the Notice of Draftspers		ew ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	(1 1 2 2 1 2 ) 4 1111 2 1 2 2	
(b) ☐ including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1	s Amendment / Comment		
each sheet. Replacement sheet(s) should be labeled as such in t			
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	6.	nformal Patent Application Summary (PTO-413), b./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	
of Biological Material	9. 🔲 Other	<u>_</u> .	

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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/08/10 has been entered.

Claims 1-14 are pending for examination.

#### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph Wrkich on 03/02/10.

The application has been amended as follows:

- a. In claim 13:
  - i. Line 7, insert before "wherein the displacing includes," -- wherein the actuator further has an electromagnetic coil for displacing the movable

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portion when a current flows through the electromagnetic coil, where the movable portion is displaced between the semi-operation position and the normal position by adjusting an amount of current to the electromagnetic coil --

- ii. Line 9, replace "an amount of electricity" with -- the amount of current --
- iii. Line 11, replace "an amount of electricity" with -- the amount of current --
- iv. Line 13, replace "an electromagnetic coil" with -- the electromagnetic coil --

### b. In claim 14:

- v. Line 7, insert before "wherein the displacing includes," -- wherein the actuator further has an electromagnetic coil for displacing the movable portion when a current flows through the electromagnetic coil, where the movable portion is displaced between the semi-operation position and the normal position by adjusting an amount of current to the electromagnetic coil –
- vi. Line 10, replace "an electromagnetic coil" with -- the electromagnetic coil --
- vii. Line 13, replace "an amount of electricity" with -- the amount of current --

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viii. Line 14, replace "an amount of electricity" with -- the amount of current --

ix. Line 16, replace "electricity" with -- current -

## Allowable Subject Matter

### 3. Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance: The cited prior art do not teach or suggest a device or method for maintaining the movable portion of an actuator at the semi-operation portion without causing the movable portion to move to the full actuation position. The combinations of the claimed limitations in the independent claims 1 and 3 are not anticipated or made obvious by the prior art of record in the examiner's opinion.

In addition, the examiner's statement of reasons for allowance for claims 11-14 were indicated in the previous Office Action dated 11/09/09.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kawing Chan whose telephone number is (571)270-3909. The examiner can normally be reached on Mon-Fri 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Benson can be reached on 571-272-2227. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. C./ /Walter Benson/ Examiner, Art Unit 2837

Supervisory Patent Examiner, Art Unit 2837